

determines for a current pixel from which location in a previous video picture the current pixel comes from.

11. (Newly Added) Method according to claim 10, wherein the re-coding step includes a step of calculating drag coordinates for the sub-field code word bits of the current pixel based on the calculated motion vector, and wherein the drag coordinates are used for selecting a pixel in the video picture and using the corresponding bit of the sub-field code word of the selected pixel to determine the corresponding bit of the new sub-field code word of the current pixel.

12. (Newly Added) Method according to claim 11, wherein the calculation of the drag coordinates is made according to the formula:

$$\Delta x_n = -\frac{V_x \cdot G(n)}{Dur(F)} \quad \text{and} \quad \Delta y_n = -\frac{V_y \cdot G(n)}{Dur(F)}$$

wherein Δx_n represents the relative position in x-direction of a pixel from which the sub-field code word bit needs to be taken for the current pixel;

Δy_n represents the relative position in y-direction of a pixel from which the sub-field code word bit needs to be taken for the current pixel;

V_x is the x-component of the motion vector and V_y is the y-component of the motion vector;

consisting of pixels, the pixels being digitally coded with at least one digital code word, wherein to each bit of a digital code word a certain duration is assigned, hereinafter called sub-field, during which the whole pixel or a component of the pixel is activated, wherein, the apparatus comprises

- a motion estimator for calculating motion vectors for the pixels of a current video picture by comparing a current video picture with at least one previous video picture, the resulting motion vector being defined to determine for a current pixel from which location in a previous video picture the current pixel comes from.

17. (Newly Added) Apparatus according to claim 16, further comprising a sub-field re-coding unit in which drag coordinates for the sub-field code word bits of the current pixel based on the calculated motion vector are calculated, and a selection unit, in which the drag coordinates are used for selecting a pixel in a video picture and using the corresponding bit of the sub-field code word of the selected pixel to determine the corresponding bit of the new sub-field code word of the current pixel.

18. (Newly Added) Apparatus according to claim 16, the apparatus comprising a matrix display, especially plasma, LCOS (Liquid Crystal On Silicon) or DMD display.